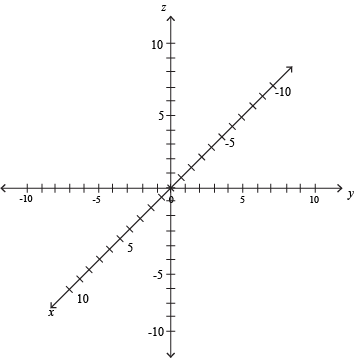
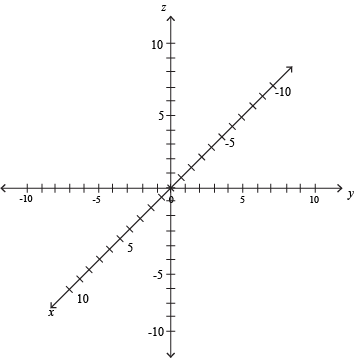
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_\_\_\_

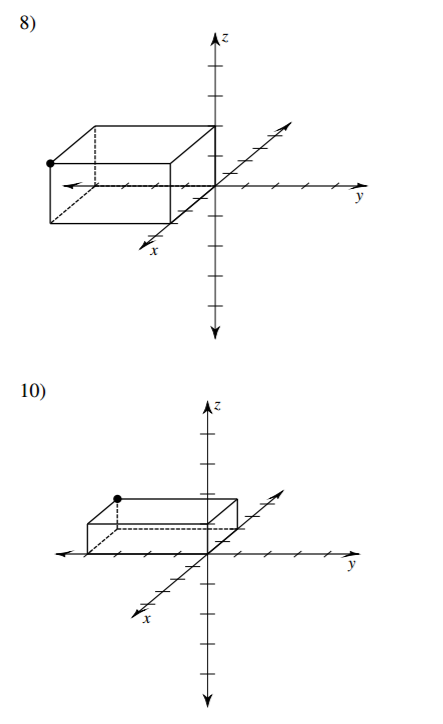
CW 84: Volume in the Coordinate Plane

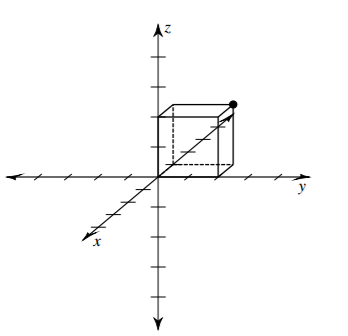
**Honors Geometry**

Plot the point and sketch the rectangular prism that is formed. Label the dimensions of the figure and find the volume.

**(4, 3, 2) (-5, 2, 1)**



Find the volume and surface area of each of the prisms in the coordinate plane.



|  |  |
| --- | --- |
| Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 4.58.50 AM.png a) Find the area of square STUV.      b) Suppose the sides of the square were extended 10 units above the paper such that they formed a rectangular prism. Draw a picture and find the volume of the prism. | 1. Find the area of the triangle shown above. 2. Suppose the sides of the triangle were extended 15 units above the paper such that they formed a rectangular prism. Draw a picture and find the volume of the prism. |
| Find the volume of the prism formed by rectangle UVWX when the sides are raised 20 units above the paper.   Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 4.59.12 AM.png | Find the volume of the prism formed by triangle ABC when the sides are raised 13 units above the paper. |

Directions: Find the volume of the prism formed by each shape below given the units the sides are raised above the paper. Graph each problem below on a piece of graph paper that you either attached to the classwork or is in your notebook.

|  |  |
| --- | --- |
| 1. The region bound by (0,0), (0,1), (4,0) and (4,1), raised 17 units. | 1. The region bound by (-1,10), (2,10), (-1,-3), and (2,-3), raised 5 units. |
| 1. The region bound by (-4,5), (2,5), (-4,2) and (2,2), raised 30 units. | 1. The region bound by (0,0), (2,0),(0,-4), raised 14 units. |
| 1. The region bound by the (0,2), (0,0) and (-8,0), raised 5 units | 1. The triangle formed (0,6), (6,6), (0,0), raised 7 units. |